

ABSTRACT OF THE INVENTION

1 A method for producing titanium alloy brazing strips and the resulting
2 brazing strips and/or foils. The method uses a cold-rolling process without
3 heat treating to generate a titanium based multi-layer alloy strip or foil made
4 up of discrete layers of titanium and an additional layer or layers of one or
5 more metals, such as zirconium, nickel and/or copper, for example, or alloys
6 thereof, with the layer of titanium roll bonded without heat treating to the
7 layers of the additional metal(s). The resulting strip or foil can include, for
8 example, Cu/Ti/Cu, Ni/Ti/Ni, Ni/Ti/Cu, Cu/Ni/Ti/Ni/Cu, Ni/Cu/Ti/Cu/Ni,
9 Ni/Cu/Ni/Ti/Ni/Cu/Ni, Ni/Zr/Cu/Ti/Cu/Zr/Ni and Ni/Ti/Cu/Zr/Cu/Ti/Ni among
10 other combinations. The resulting strip or foil can be used for brazing, creating
11 an alloy of the weight percentage of the original materials.